

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Cancelled)
2. (Currently Amended) The system of Claim ~~[[1]]~~ 6, wherein the embedded control logic comprises:
 - a multiplexer including:
 - a first input interfaced with the first port;
 - a second input interfaced with a video source in the information handling system; and
 - an output interfaced with the second port;
 - the multiplexer operable to transmit the first analog video signals received by the first port and the second analog video signals generated by the information handling system to the second port; and
 - a processing resource interfaced with the multiplexer and the first and second ports, the processing resource operable to generate a mux signal for selecting the first and second analog video signals.
3. (Original) The system of Claim 2, further comprising the mux signal generated based on a selection signal received from a shared bus through at least one of the first and second ports on a shared bus, the selection signal generated by the master controller.
4. (Currently Amended) The system of Claim ~~[[1]]~~ 6, further comprising the embedded control logic operable to obtain operating information associated with the information handling system.

5. (Original) The system of Claim 4, further comprising the operating information selected from the group consisting of temperature, operating voltage, and fan speed.

6. (Currently Amended) ~~[[The]]~~ An information handling system of Claim 1, further comprising:

a first port operable to receive first analog video signals;

~~[[the]]~~ a second port second port operably coupled to the embedded control logic, the second port operable to transmit at least one of the first and second analog video signals to a master controller operably coupled to the information handling system and operable to receive third analog video signals;

the first port further operable to transmit the second and third analog video signals; and

~~[[the]]~~ embedded control logic operably coupled to the first port operable to select either the first analog video signals received by the first port or second analog video signals generated by the information handling system and operable to selectively transmit either the first analog video signals received by the first port and the second analog video signals generated by the information handling system over the second port or the third analog video signals received by the second port and the second analog video signals generated by the information handling system over the first port.

7. (Currently Amended) The system of Claim ~~[[1]]~~ 6, wherein the embedded control logic includes a backup power source operable to power the embedded control logic if the information handling system is powered off.

8. (Currently Amended) The system of Claim ~~[[1]]~~ 6, further comprising the first and second ports operable to receive backup power for operating the embedded control logic if an AC power source for the information handling system is disconnected.

9. **(Currently Amended)** The system of Claim ~~[[1]]~~ 6, further comprising:
a first twisted pair cable operably coupled to the first port; and
a second twisted pair cable operably coupled to the second port;
the first and second twisted pair cables operable to transmit the first and second analog video signals.

10. **(Currently Amended)** The system of Claim ~~[[1]]~~ 6, wherein the first and second analog video signals comprise RGB signals.

11. **(Currently Amended)** The system of Claim ~~[[1]]~~ 6, wherein the master controller receives the first and second analog signals and converts the first and second analog video signals to digital video signals for transmission over an Ethernet.

12. (Original) An information handling system, comprising:
a first port operable to transmit and receive first video signals;
a second port operable to transmit and receive second video signals; and
embedded control logic operably coupled between the first port and the second port, the embedded control logic operable to selectively transmit to a master controller operably coupled to the information handling system either the first video signals received from the first port or third video signals generated by the information handling system through the second port or the second video signals received from the second port or the third video signals generated by the information handling system through the first port.

13. (Original) The system of Claim 12, wherein the embedded control logic comprises:

a first multiplexer including:

a first input interfaced with the first port;

a second input interfaced with a video source in the information handling system; and

an output interfaced with the second port;

the first multiplexer operable to select either the first video signals received by the first port or the third video signals generated by the information handling system for transmission through the second port;

a second multiplexer including:

a first input interfaced with the second port;

a second input interfaced with the video source in the information handling system; and

an output interfaced with the first port;

the second multiplexer operable to select either the second video signals received by the second port or the third video signals generated by the information handling system for transmission through the first port; and

a processing resource interfaced with the first and second multiplexers and between the first and second ports, the processing resource operable to generate mux signals for selecting the first, second and third video signals.

14. (Original) The system of Claim 12, further comprising the embedded control logic operable to obtain operating information for the information handling system.

15. (Original) The system of Claim 14, further comprising the operating information selected from the group consisting of temperature, operating voltage, operating speed and fan speed.

16. (Original) The system of Claim 12, wherein the first, second and third video signals comprise analog video signals.

17. (Original) The system of Claim 12, wherein the embedded control logic includes a backup power source operable to power the embedded control logic if the information handling system is powered off.

18. (Original) The system of Claim 12, further comprising the first port and second ports operable to receive backup power for operating the embedded control logic if an AC power source for the information handling system is disconnected.

19. (Cancelled)

20. (Currently Amended) The method of Claim ~~[[19]]~~ 21, further comprising:
obtaining operating information associated with the information handling system; and
transmitting system information through the second port to the master controller.

21. (Currently Amended) ~~[[The]]~~ A method of Claim 19 for managing multiple information handling systems using embedded control logic, further comprising:

receiving first analog video signals from a first port;

generating second analog video signals by an information handling system;

selecting either the first analog video signals received from the first port or the second analog video signals generated by the information handling system based on a selection signal received from a master controller operably coupled to the information handling system;

transmitting the selected analog video signals through a second port to the master controller;

receiving third analog video signals from the second port;

selecting the first analog video signals received from the first port or the second analog video signals generated by the information handling system for transmission over the second port;

selecting the third analog video signals received from the second port or the second analog video signals generated by the information handling system for transmission over the first port; and

transmitting the selected analog video signals through at least one of the first and second ports.

22. **(Currently Amended)** The method of Claim ~~[[19]]~~ 21, further comprising generating backup power through a backup power source in the information handling system if the information handling system is powered off.

23. **(Currently Amended)** The method of Claim ~~[[19]]~~ 21, further comprising the selection signal received from at least one of the first and second ports on a shared bus.

24. **(Currently Amended)** The method of Claim ~~[[19]]~~ 21, further comprising at least one of a keyboard signal and a mouse signal received from at least one of the first and second ports on a shared bus.